NVEnergy

September 24, 2014

Alison Oakley
Nevada Division of Environmental Protection (NDEP)
Bureau of Corrective Actions
901 South Stewart Street, Suite 4001
Carson City, NV 89701

Subject: **NV Energy Reid Gardner Generating Station**
Request for Concurrence of Groundwater Monitoring Program Changes

Dear Ms. Oakley:

On December 3, 2010 NV Energy (NVE) submitted a Draft Groundwater Sampling Plan (GSP) to the Nevada Division of Environmental Protection (NDEP) for purposes of the Administrative Order on Consent (AOC). On September 6, 2011 the NDEP provided comments on the Draft GSP requesting that more rationale and documentation be included regarding the discussion of the proposed sampling frequency and parameter list. At the third quarter 2012 AOC meeting between NVE and NDEP, it was agreed that NVE would submit the groundwater monitoring changes rationale as a separate document for NDEP review. The attached Proposed Groundwater Monitoring Program Changes Memo serves as that documentation.

NVE is requesting concurrence of the sampling reductions in the memo. Following NDEP approval, the memo and attachments will be included as an appendix in a future revised GSP submittal.

If there are any questions regarding this submittal, please contact the undersigned at (702) 402-5958.

Sincerely,

Jason Reed, C.E.M.
Staff Environmental Engineer
NV Energy

Enclosure

cc: Tony Garcia – NV Energy
Mike Rojo – NV Energy
Rebecca Svatos – Stanley Consultants

Document and Response to Comments Tracking Form
NV Energy – Reid Gardner Station
Administrative Order on Consent Implementation

Document Title Draft Groundwater Sampling Plan

Preparer Stanley Consultants, Inc

Draft #1

To NV Energy (NVE) From NDEP

Submittal Date 12/2010 Comment Date 9/6/2011

Response Date 9/24/14

Commenter NDEP Responder Stanley Consultants, Inc.

General Comments:

Comment #1

General comment, NDEP is aware that several wells have been added, replaced, or abandoned since the submittal of this Deliverable. Please revise this Deliverable to address any changes to the SAP due to these new or abandoned wells.

Response #1

This comment will be addressed in a revised Groundwater Sampling Plan (GSP) which is tentatively scheduled for submittal in 2015.

Comment #2

Section 3.5, Page 3-2, NDEP has the following comment: The report states, "*Purge water will not be used to fill sample bottles and wells will be allowed to recharge up to 80% of the static water column prior to sample collection*". This protocol does not appear to be consistent with the referenced EPA Groundwater Sampling SOPs provided in the QAPP. For instance the U.S. EPA Region 9 Field Sampling Guidance Document #1220, Groundwater Well Sampling states that "*It is particularly important that wells be sampled as soon as possible after purging. If adequate volume is available the well must be sampled immediately.*" In situations where the well is pumped dry, the guidance indicates that this "*...generally constitutes an adequate purge and the well can be sampled following sufficient recovery (enough volume to allow filling of all sample container).*" NVE should revise this discussion accordingly. Alternatively, NVE could consider using a low flow sampling SOP.

Response #2

This comment will be addressed in the revised GSP which is tentatively scheduled for submittal in 2015.

Comment #3

Appendix B, More rationale and documentation should be included regarding the discussion of the proposed sampling frequency and parameter list. For example, some parameters are proposed to be removed for wells that have had historical exceedances (i.e. – chromium and molybdenum in LMW-9) and some analyses are proposed to be reduced without explanation (ie.- reduced EPA Method 8260 scan for HM-50 replacement well). The supporting documentation should be included in the Appendix and not as a separate document

Response #3

At the third quarter 2012 AOC meeting between NVE and NDEP, it was agreed NVE would submit the groundwater monitoring changes rationale as a separate document for NDEP Review. The Groundwater Monitoring Program Changes memorandum serves as that submittal. Following NDEP approval of the memorandum and attachments, those documents will then be included as an appendix to the revised Groundwater Sampling Plan.

Final

To _____ From _____

Submittal Date _____ Approval Date _____

Approver _____

MEMO

TO: Alison Oakley, NDEP **DATE:** September 24, 2014

FROM: Jason Reed, NVE
Tony Garcia, NVE
Mike Rojo, NVE

SUBJECT: DRAFT NVE RGS Proposed Groundwater Monitoring Program Changes

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On December 3, 2010 NV Energy (NVE) submitted a Draft Groundwater Sampling Plan (GSP) to the Nevada Division of Environmental Protection (NDEP) for purposes of the Administrative Order on Consent (AOC). This submittal included groundwater sampling procedures and changes to the groundwater monitoring requirements from those listed in previous documents. On September 6, 2011 the NDEP provided comments on the Draft GSP requesting that more rationale and documentation be included regarding the discussion of the proposed changes to sampling frequency and parameter list. At the third quarter 2012 AOC meeting between NVE and NDEP held on September 26, 2012, it was agreed that NVE would submit the groundwater monitoring changes rationale as a separate document for NDEP review. The document would then be included as an appendix to the revised Groundwater Sampling Plan after NDEP has approved the sampling reductions. This Proposed Groundwater Monitoring Program Changes memo serves as that documentation. Both well and parameter sampling reductions are proposed.

Well Sampling Reductions

An attempt is made to sample 102 wells during each semi-annual AOC groundwater sampling event at Reid Gardner Station (Station). These wells are listed in a recent sampling guide as seen in Appendix A. The 102 wells do not include abandoned or destroyed wells, nor background, diesel recovery, or mesa pond wells. Because the background wells have already been sampled four times, no semi-annual monitoring has been occurring and they have only been gauged for water levels. Diesel recovery wells are currently only gauged for product. NVE is voluntarily sampling the mesa pond wells and this monitoring is not conducted under the AOC.

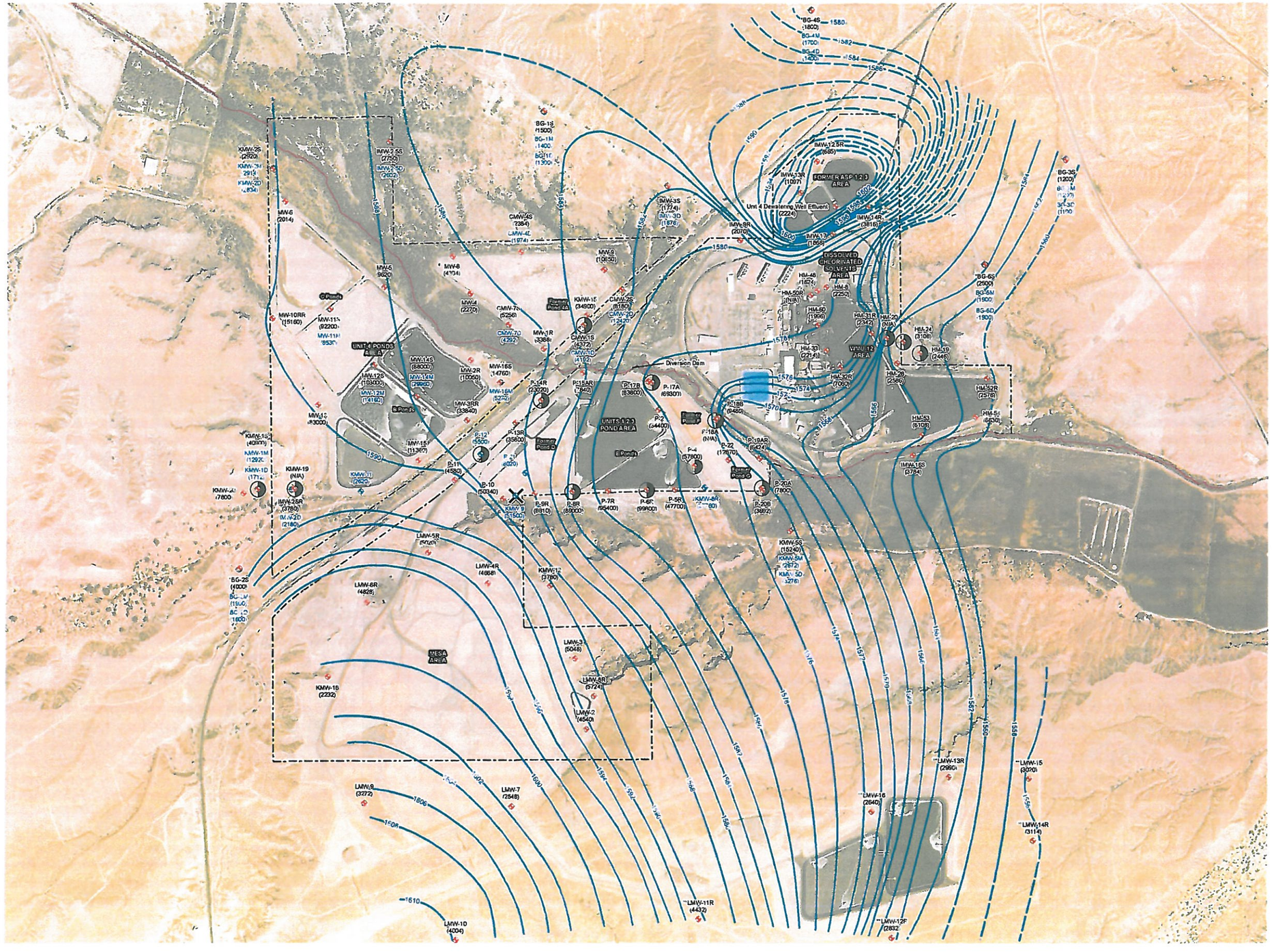
NVE is proposing to reduce the number of AOC wells sampled by 16, as seen in Figure 1. NVE proposes to continue to gauge these wells to gather water level information, unless the well is recommended for abandonment; however, samples for laboratory analysis would not be collected. Because mesa landfill wells are required to be monitored by the Southern Nevada Health District (SNHD) as well as the NDEP, no sampling reductions were considered for these wells.

The rationale for the proposed sampling reductions in each well is provided in Tables 1-4. Historical total dissolved solids (TDS) or arsenic concentrations, depending on the area, were considered as seen in the Appendix B Well Trend Graphs. Those wells for which historical groundwater trends for these two parameters showed little or no variation and were near other wells monitoring the same groundwater interval, are redundant and proposed for removal. In addition, wells with unfavorable conditions, such as obstructions or lack of adequate water for sampling, are also recommended for removal or abandonment (refer to Table 5 of Appendix C, titled Well Maintenance).

Parameter Sampling Revisions

NVE collects samples from wells during each semi-annual event to be analyzed for metals, general chemistry, and volatile organic compound (VOC) parameters, as shown in Tables 1-4. NVE is proposing to discontinue analysis for some of these parameters based on a review of past data. The parameter reductions would be the same for all wells in one area to simplify field operations. Specific parameters are proposed for elimination from future analysis if they have never or rarely been detected in a particular well or group of wells or if there are no established screening levels (refer to Tables 1-4). Certain parameters, though meeting these criteria, are proposed for continued analysis or were added because they are needed to perform field or laboratory quality assurance checks, such as cation/anion balances.

Raw groundwater chemistry data and a detection count pivot chart, of which the parameter sampling revisions are based upon, are provided in Appendix D (CD).



Legend

Monitoring Wells and TDS Concentration (2014 Q1)

- Deep or Medium
- Shallow
- Monitor Groundwater Elevation Only
- Proposed Abandonment
- Muddy River
- Property Boundary
- Groundwater Elevation Contour (ft) 2014-Q1
- Groundwater Elevation Contour (Inferred) (ft) 2014-Q1

N

1,100 550 0 1,100 2,200 Feet

Notes:

1. Aerial imagery provided by USDA-FSA Aerial Photography Field Office; published 11/15/2013; photographs taken Spring 2013
2. Shallow, medium, and deep well classifications are subject to change
3. Wells with "N/A" labels were not available for TDS sampling in 2014-Q1
4. *BG-1, BG-2, BG-3, BG-4, BG-6 monitoring wells were not sampled in 2014-Q1, so TDS concentrations from 2012-Q4 were used
5. **LMW-11R, LMW-12R, LMW-13R, LMW-14R, LMW-15, LMW-16 monitoring wells were not sampled in 2014-Q1, so TDS concentrations from 2013-Q3 were used
6. CMW-3S/D, CMW-5S/D, CMW-6S/D were abandoned July 2014

Stanley Consultants INC.

September 2014

REV	No.	REVISION DESCRIPTION	DATE	DRWN	CHKD	APVD
0		NDEP sumbittal	09/24/14	CC/AE	AE	RLS/TK

0 1 in.
At full size
1 inch = 1,100 feet

NVEnergy

20618.09.19

REV.
0

PROPOSED SAMPLING REDUCTION LOCATIONS
Groundwater Sampling Plan
NV Energy
Reid Gardner Station
Moapa, NV
Figure 1

NVE Reid Gardner Station
AOC Implementation
Table 1a Sampling Reduction Summary
Unit 1,2,3 and 4 Pond Areas - Wells

Location	Monitoring Zone	Abandon	Monitor Groundwater Elevation Only	Reason or Notes
Unit 4 Pond Wells				
IMW-2D	Deep			
IMW-2SR	Shallow			
KMW-1D	Deep			
KMW-1M	Medium			
KMW-1S	Shallow		X	Well nearly dry. Will consider replacement in future workplan.
KMW-19	Shallow		X	Well cannot be sampled due to roots.
KMW-20	Shallow			
KMW-11	Medium			
KMW-2D	Deep			
KMW-2M	Medium			
KMW-2S	Shallow			
MW-10RR	Shallow			
MW-2R	Shallow			
MW-3RR	Shallow			
MW-5	Shallow			
MW-6	Shallow			
MW-11S	Shallow			
MW-11M	Medium			
MW-12S	Shallow			
MW-12M	Medium			
MW-13	Shallow			
MW-14S	Shallow			
MW-14M	Medium			
MW-15	Shallow			
MW-16S	Shallow			
MW-16M	Medium			
CMW-1D	Medium		X	Near MW-1R and similar TDS concentration. Close to KMW-15. Future well cluster to be installed in Former Pond 4A footprint.
CMW-1S	Shallow		X	Near MW-1R and similar TDS concentration. Close to KMW-15. Future well cluster to be installed in Former Pond 4A footprint.
CMW-2D	Medium			
CMW-2S	Shallow			
CMW-4D	Medium			
CMW-4S	Shallow			
CMW-7D	Medium			
CMW-7S	Shallow			
KMW-15	Shallow			
MW-1R	Shallow			

NVE Reid Gardner Station
AOC Implementation
Table 1a Sampling Reduction Summary
Unit 1,2,3 and 4 Pond Areas - Wells

Location	Monitoring Zone	Abandon	Monitor Groundwater Elevation Only	Reason or Notes
MW-4	Shallow			
MW-8	Shallow			
MW-9	Shallow			
IMW-2.5D	Medium			
IMW-2.5S	Shallow			
IMW-3D	Deep			
IMW-3S	Shallow			
Units 1,2,3 Pond Wells				
P-2	Shallow			
P-4	Shallow		X	Stable TDS trend. Close to P-22.
P-5R	Shallow			
P-6R	Shallow		X	TDS has no clear trend. Constructed in 2003 potentially within slurry wall.
P-7R	Shallow			
P-8R	Shallow		X	TDS has no clear trend. Constructed in 2003 potentially within slurry wall.
P-9R	Shallow			
KMW-9	Medium	X		TDS has no clear trend. Medium well exhibiting shallow conditions.
P-10	Shallow			
P-11	Shallow			
P-12	Medium		X	Stable TDS trend. Close to P-11 and similar TDS concentration. Close to P-13R.
P-13R	Shallow			
P-14R	Shallow		X	StableTDS trend. Close to P-13R and P-15AR.
P-15AR	Shallow			
P-17A	Shallow		X	Adjacent to P-17B and similar TDS concentrations.
P-17B	Shallow			
P-18A	Shallow		X	Dry. Adjacent to P-18B.
P-18B	Shallow			
P-19AR	Shallow			
P-20A	Shallow		X	TDS has no clear trend. Adjacent to P-20B and similar TDS concentration.
P-20B	Shallow			
KMW-8R	Medium			
P-21	Medium			
P-22	Shallow			
IMW-16S	Shallow			
KMW-5S	Shallow			
KMW-5M	Medium			
KMW-5D	Deep			

NVE Reid Gardner Station
AOC Implementation
Table 1b Sampling Reduction Summary
Units 1,2,3 and 4 Pond Areas - Parameters

Parameter	Discontinue from Monitoring	Reason		
		No detections [1]	Rarely Detected	No Screening Levels
General Chemistry				
Bicarbonate*				
Carbonate*				
Chloride				
Fluoride*				
Nitrate as N				
Specific Conductance				
Sulfate				
Sulfide				
Sulfite				
Total Dissolved Solids				
Total Organic Carbon				
Total Suspended Solids	X			X
Turbidity				
Metals				
Arsenic				
Beryllium	X		X (3/1028)	
Boron				
Cadmium				
Calcium				
Chromium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Sodium				
Strontium				
Titanium	X		X (12/1029)	
Vanadium				
Zinc				

*Parameter addition for lab or field consistency checks (i.e. cation/anion balance)

[1] No detections above laboratory reporting limits

NVE Reid Gardner Station
AOC Implementation
Table 2 Sampling Reduction Summary
Former ASP 1,2,3 Area

Location (all shallow monitoring zone)	Abandon	Monitor Groundwater Elevation Only	Reason	
IMW-12.5R				
IMW-13R				
IMW-14R				
IMW-17				
IMW-9R				

Parameter	Discontinue from Monitoring	Reason		
		No detections [1]	Rarely Detected	No Screening Levels
General Chemistry				
Bicarbonate*				
Carbonate*				
Chloride				
Fluoride				
Nitrate as N				
Phosphates	X			X
Specific Conductance*				
Sulfate				
Sulfide				
Sulfite				
Total Dissolved Solids				
Total Organic Carbon				
Total Suspended Solids	X			X
Turbidity				
Metals				
Arsenic				
Barium				
Beryllium	X	X		
Boron				
Cadmium	X	X		
Calcium				
Chromium				
Magnesium				
Manganese				
Molybdenum				
Nickel	X		X (3/120)	
Potassium*				
Selenium				
Sodium				
Strontium				
Titanium	X		X (10/120)	

NVE Reid Gardner Station
AOC Implementation
Table 2 Sampling Reduction Summary
Former ASP 1,2,3 Area

Parameter	Discontinue from Monitoring	Reason		
		No detections [1]	Rarely Detected	No Screening Levels
Vanadium				
Zinc				
Organics				
VOC 8260 Full Scan				

*Parameter addition for lab or field consistency checks (i.e. cation/anion balance)

[1] No detections above laboratory reporting limits

NVE Reid Gardner Station
AOC Implementation
Table 3 Sampling Reduction Summary
Dissolved Chlorinated Solvents Area

Location (all shallow monitoring zone)	Discontinue from Monitoring	Monitor Groundwater Elevation Only	Reason	
HM-48				
HM-50 R				
HM-51				
HM-8				

Parameter	Discontinue from Monitoring	Reason		
		No detections [1]	Rarely Detected	No Screening Levels
General Chemistry				
Bicarbonate*				
Carbonate*				
Chloride				
Fluoride*				
Nitrate as N				
Phosphates	X			X
Specific Conductance*				
Sulfate				
TDS				
Metals				
Arsenic				
Barium				
Beryllium	X	X		
Boron				
Cadmium	X	X		
Calcium				
Chromium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium*				
Selenium				
Sodium				
Titanium	X	X	X (2/45)	
Vanadium				
Organics				
Ethylene				
VOC 8260 Full Scan				

*Parameter addition for lab or field consistency checks (i.e. cation/anion balance)

[1] No detections above laboratory reporting limits

NVE Reid Gardner Station
AOC Implementation
Table 4 Sampling Reduction Summary
Waste Management Unit-12 Area

Location	Abandon	Monitor Groundwater Elevation Only	Reason
HM-19		X	Stable arsenic trend. Close to HM-28, HM-31R, and HM-52R.
HM-20		X	Free Product. Close to HM-28, HM-31R, and HM-52R.
HM-24		X	Stable arsenic trend. Close to HM-28, HM-31R, and HM-52R.
HM-28			
HM-31R			
HM-32R			
HM-33			
HM-52R			
HM-53			
HM-54			
HM-60			
Unit 4 Dewatering Well Effluent			

Parameter	Discontinue from Monitoring	Reason		
		No detections [1]	Rarely detected	No Screening Levels
General Chemistry				
Bicarbonate*				
Carbonate*				
Chloride				
Fluoride*				
Nitrate as N				
Phosphates	X			X
Specific Conductance				
Sulfate				
Sulfide				
Sulfite				
Total Dissolved Solids				
Total Organic Carbon				
Total Suspended Solids	X			X
Turbidity*				
Metals				
Arsenic				
Barium				
Beryllium	X	X		
Boron				
Cadmium	X	X		

NVE Reid Gardner Station
AOC Implementation
Table 4 Sampling Reduction Summary
Waste Management Unit-12 Area

Parameter	Discontinue from Monitoring	Reason		
		No detections [1]	Rarely detected	No Screening Levels
Calcium				
Chromium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium*				
Selenium				
Sodium				
Strontium				
Titanium	X		X (15/182)	
Vanadium				
Zinc				
Organics				
VOC 8260 Full Scan				

*Parameter addition for lab or field consistency checks (i.e. cation/anion balance)

[1] No detections above laboratory reporting limits

APPENDIX A
Recent GMR Sample Record

2014 REID GARDNER
GMR
ANNUAL SAMPLING RECORD - LEVEL II REPORTING

QTRLY	Quarterly - Samples will be collected in February (1st Qtr), May (2nd Qtr), August (3rd Qtr), and November (4th Qtr).
SEMI-A	Semi-Annual - Samples will be collected in February (1st Qtr) and August (3rd Qtr).

MONITORING WELLS

WELL NUMBER	SAMPLING FREQUENCY	2014 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
Mesa Wells						
LMW-2	SEMI-A*	X				Sampled 2/27/2014
LMW-3	SEMI-A*	X				Sampled 2/27/2014
LMW-4	ABANDONED					Well abandoned July 2011
LMW-4R	SEMI-A*	X				Sampled 2/26/2014
LMW-5	ABANDONED					Well abandoned July 2011
LMW-5R	SEMI-A*	X				Sampled 2/26/2014
LMW-6	ABANDONED					Well abandoned July 2011
LMW-6R	SEMI-A*	X				Sampled 2/26/2014
LMW-7	SEMI-A*	X				Sampled 2/24/2014
LMW-8	ABANDONED					Well abandoned July 2011
LMW-8R	SEMI-A*	X				Sampled 2/27/2014
LMW-9	SEMI-A*	X				Sampled 2/24/2014
LMW-10	SEMI-A*	X				Sampled 2/24/2014
LMW-11	NOT SAMPLED					NOT SAMPLED ANY MORE
KMW-12	SEMI-A*	X				Sampled 2/27/2014
KMW-13	ABANDONED					Well abandoned Nov 2005
KMW-16	SEMI-A*	X				Sampled 2/24/2014
KMW-17	ABANDONED					h
Unit 4 Pond Wells						
MW-11S	SEMI-A	X				Sampled 2/25/2014
MW-11M	SEMI-A	X				Sampled 2/25/2014
MW-12S	SEMI-A	X				Sampled 2/25/2014
MW-12M	SEMI-A	X				Sampled 2/25/2014
MW-13	SEMI-A	X				Sampled 2/25/2014
MW-14S	SEMI-A	X				Sampled 2/25/2014
MW-14M	SEMI-A	X				Sampled 2/25/2014
MW-15	SEMI-A	X				Sampled 2/25/2014
MW-16S	SEMI-A	X				Sampled 2/25/2014
MW-16M	SEMI-A	X				Sampled 2/25/2014
IMW-2D	SEMI-A	X				Sampled 2/25/2014
IMW-2S	ABANDONED					Well abandoned July 2011
IMW-2SR	SEMI-A	X				Sampled 2/25/2014
KMW-1D	SEMI-A	X				Sampled 2/25/2014
KMW-1M	SEMI-A	X				Sampled 2/25/2014
KMW-1S	SEMI-A	X				Sampled 2/25/2014
KMW-19	SEMI-A	X				Not sampled, too many roots
KMW-20	SEMI-A	X				Sampled 2/25/2014
KMW-11	SEMI-A	X				Sampled 2/25/2014
KMW-2D	SEMI-A	X				Sampled 2/24/2014
KMW-2M	SEMI-A	X				Sampled 2/24/2014
KMW-2S	SEMI-A	X				Sampled 2/24/2014
MW-10R	ABANDONED					Well abandoned July 2011
MW-10RR	SEMI-A	X				Sampled 2/25/2014
MW-2R	SEMI-A	X				Sampled 2/25/2014
MW-3R	ABANDONED					Well abandoned July 2011
MW-3RR	SEMI-A	X				Sampled 2/25/2014
MW-5	SEMI-A	X				Sampled 2/25/2014
MW-6	SEMI-A	X				Sampled 2/25/2014
MW-7	ABANDONED					Well abandoned July 2011
CMW-1D	SEMI-A	X				Sampled 2/24/2014
CMW-1S	SEMI-A	X				Sampled 2/24/2014
CMW-2D	SEMI-A	X				Sampled 2/24/2014
CMW-2S	SEMI-A	X				Sampled 2/24/2014
CMW-3D	ABANDONED	X				Well abandoned July 2014
CMW-3S	ABANDONED	X				Well abandoned July 2014
CMW-4D	SEMI-A	X				Sampled 2/24/2014
CMW-4S	SEMI-A	X				Sampled 2/24/2014
CMW-5D	ABANDONED	X				Well abandoned July 2014
CMW-5S	ABANDONED	X				Well abandoned July 2014
CMW-6D	ABANDONED	X				Well abandoned July 2014
CMW-6S	ABANDONED	X				Well abandoned July 2014
CMW-7D	SEMI-A	X				Sampled 2/24/2014
CMW-7S	SEMI-A	X				Sampled 2/24/2014
KMW-15	SEMI-A	X				Sampled 2/24/2014
MW-1R	SEMI-A	X				Sampled 2/24/2014
MW-4	SEMI-A	X				Sampled 2/25/2014
MW-8	SEMI-A	X				Sampled 2/24/2014
MW-9	SEMI-A	X				Sampled 2/25/2014
IMW-2.5D	SEMI-A	X				Sampled 2/24/2014
IMW-2.5S	SEMI-A	X				Sampled 2/24/2014
IMW-3D	SEMI-A	X				Sampled 2/27/2014
IMW-3S	SEMI-A	X				Sampled 2/27/2014

*sampled quarterly (QTRLY) for SNHD purposes and semi-annually (SEMI-A) for AOC purposes

2014 REID GARDNER
GMR
ANNUAL SAMPLING RECORD - LEVEL II REPORTING

QTRLY	Quarterly - Samples will be collected in February (1st Qtr), May (2nd Qtr), August (3rd Qtr), and November (4th Qtr).
SEMI-A	Semi-Annual - Samples will be collected in February (1st Qtr) and August (3rd Qtr).

MONITORING WELLS (Continued)

WELL NUMBER	SAMPLING FREQUENCY	2014 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
Unit 1,2,3 Pond Wells						
P-1R	ABANDONED					Well abandoned March 2013
P-2	SEMI-A	X				Sampled 2/25/2014
P-3	DESTROYED					Well destroyed by construction Q1 2009
P-4	SEMI-A	X				Sampled 2/25/2014
P-5R	SEMI-A	X				Sampled 2/25/2014
P-6R	SEMI-A	X				Sampled 2/25/2014
P-7R	SEMI-A	X				Sampled 2/25/2014
P-8R	SEMI-A	X				Sampled 2/25/2014
P-9	ABANDONED					Well abandoned March 2013
P-9R	SEMI-A	X				Sampled 2/25/2014
KMW-9	SEMI-A	X				Sampled 2/26/2014
P-10	SEMI-A	X				Sampled 2/25/2014
P-11	SEMI-A	X				Sampled 2/26/2014
P-12	SEMI-A	X				Sampled 2/26/2014
P-13R	SEMI-A	X				Sampled 2/26/2014
P-14R	SEMI-A	X				Sampled 2/26/2014
P-15AR	SEMI-A	X				Sampled 2/26/2014
P-17A	SEMI-A	X				Sampled 2/25/2014
P-17B	SEMI-A	X				Sampled 2/25/2014
P-18A	SEMI-A	X				Gauged 2/25/2014, No Sample, well was dry
P-18B	SEMI-A	X				Sampled 2/25/2014
P-19A	ABANDONED					Well abandoned July 2011
P-19AR	SEMI-A	X				Sampled 2/26/2014
P-20A	SEMI-A	X				Sampled 2/26/2014
P-20B	SEMI-A	X				Sampled 2/26/2014
KMW-8R	SEMI-A	X				Sampled 2/25/2014
P-21	SEMI-A	X				Sampled 2/26/2014
P-22	SEMI-A	X				Sampled 2/26/2014
KMW-5D	SEMI-A	X				Sampled 2/27/2014
KMW-5M	SEMI-A	X				Sampled 2/27/2014
KMW-5S	SEMI-A	X				Sampled 2/27/2014
KMW-4D	DESTROYED					Well destroyed by livestock Q4 2004
KMW-4M	DESTROYED					Well destroyed by livestock Q4 2004
KMW-4S	DESTROYED					Well destroyed by livestock Q4 2004
IMW-16S	SEMI-A	X				Sampled 2/26/2014
IMW-16D	DESTROYED					Well destroyed Q2 2009

MONITORING WELL REPORTING AND ANALYSIS PARAMETERS (To be done QTRLY)

Field
Depth to Groundwater
Groundwater Elevation
pH

Lab
Specific Conductance
TDS
Chloride
Nitrate as N
Sulfate

Dissolved Metals ONLY
Arsenic
Beryllium
Boron
Cadmium
Calcium
Chromium
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Sodium
Titanium
Vanadium

ANALYZE FOR THESE PARAMETERS FOR THESE WELLS IN ADDITION TO THE REGULAR PARAMETERS

Fluoride
Strontium
Sulfide (H2S)
Sulfite
Total Organic Carbon
Total Suspended Solids
Turbidity
Zinc

KMW-1D
KMW-1M
KMW-1S
KMW-19
KMW-20
IMW-2D
MW-2R
MW-3RR
MW-4
MW-7
MW-9
KMW-15
P-2
P-3
P-4
P-5R
P-6R
P-7R
P-8R
P-9
P-9R
P-10
KMW-9
IMW-9R
IMW-12.5R
IMW-13R
IMW-14R
IMW-17
HM-28
HM-52R
HM-53
HM-54

2014 REID GARDNER
GMR
ANNUAL SAMPLING RECORD - LEVEL II REPORTING

QTRLY	Quarterly - Samples will be collected in February (1st Qtr), May (2nd Qtr), August (3rd Qtr), and November (4th Qtr).
SEMI-A	Semi-Annual - Samples will be collected in February (1st Qtr) and August (3rd Qtr).

ADDITIONAL MONITORING WELLS (Continued)

Former ASP-1,2,3 Area

WELL NUMBER	SAMPLING FREQUENCY	2014 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
IMW-9R	SEMI-A	X				Sampled 2/26/2014
IMW-12.5R	SEMI-A	X				Sampled 2/26/2014
IMW-13R	SEMI-A	X				Sampled 2/26/2014
IMW-14R	SEMI-A	X				Sampled 2/26/2014
IMW-15	ABANDONED					Well abandoned March 2013
IMW-17	SEMI-A	X				Sampled 2/26/2014

MONITORING WELL REPORTING AND ANALYSIS PARAMETERS (To be done QTRLY)

Field	Lab	Dissolved Metals Only	
Depth to Groundwater	VOC 8260 Full Scan	Arsenic	Manganese
Groundwater Elevation	TDS	Barium	Molybdenum
pH	Chloride	Beryllium	Nickel
	Sulfate	Boron	Selenium
	Nitrate as N	Cadmium	Sodium
	Phosphates as P	Calcium	Titanium
		Chromium	Vanadium
		Magnesium	

Dissolved Chlorinated Solvents Area

WELL NUMBER	SAMPLING FREQUENCY	2014 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
HM-8	SEMI-A	X				Sampled 2/27/2014
HM-48	SEMI-A	X				Sampled 2/27/2014
HM-50	DESTROYED					Well paved over Q3 2009
HM-50R	SEMI-A	X				Gauged 3/4/2014, no sample, free product
HM-51	DESTROYED					Well destroyed by construction Q1 2008

MONITORING WELL REPORTING AND ANALYSIS PARAMETERS (To be done QTRLY)

Field	Lab	Dissolved Metals Only	
Depth to Groundwater	VOC 8260 Full Scan	Arsenic	Manganese
Groundwater Elevation	Ethylene	Barium	Molybdenum
pH	TDS	Beryllium	Nickel
	Chloride	Boron	Selenium
	Sulfate	Cadmium	Sodium
	Nitrate as N	Calcium	Titanium
	Phosphates as P	Chromium	Vanadium
		Magnesium	

2014 REID GARDNER
GMR
ANNUAL SAMPLING RECORD - LEVEL II REPORTING

QTRLY	Quarterly - Samples will be collected in February (1st Qtr), May (2nd Qtr), August (3rd Qtr), and November (4th Qtr).
SEMI-A	Semi-Annual - Samples will be collected in February (1st Qtr) and August (3rd Qtr).

ADDITIONAL MONITORING WELLS (Continued)

Waste Management Unit-12 Area

WELL NUMBER	SAMPLING FREQUENCY	2014 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
HM-19	SEMI-A	X				Sampled 2/27/2014
HM-20	SEMI-A	X				Gauged 3/4/2014, no sample, free product
HM-24	SEMI-A	X				Sampled 2/27/2014
HM-28	SEMI-A	X				Sampled 2/27/2014
HM-31R	SEMI-A	X				Sampled 2/27/2014
HM-32	ABANDONED					Well abandoned July 2011
HM-32R	SEMI-A	X				Sampled 3/4/2014
HM-33	SEMI-A	X				Sampled 3/4/2014
HM-52	ABANDONED					Well abandoned July 2011
HM-52R	SEMI-A	X				Sampled 3/4/2014
HM-53	SEMI-A	X				Sampled 3/4/2014
HM-54	SEMI-A	X				Sampled 3/4/2014
HM-60	SEMI-A	X				Sampled 3/4/2014
Unit 4 Dewatering Well Effluent	SEMI-A	X				Sampled 2/26/2014

MONITORING WELL REPORTING AND ANALYSIS PARAMETERS (To be done QTRLY)

Field	Lab	Dissolved Metals Only	
Depth to Groundwater*	TDS	Arsenic	Manganese
Groundwater Elevation*	Chloride	Barium	Molybdenum
pH	Sulfate	Beryllium	Nickel
	Nitrate as N	Boron	Selenium
	Phosphates as P	Cadmium	Sodium
		Calcium	Titanium
		Chromium	Vanadium
		Magnesium	

ANALYZE FOR THESE PARAMETERS IN THE UNIT 4 DEWATERING WELL EFFLUENT IN ADDITION TO THE REGULAR PARAMETERS

Fluoride
Strontium
Sulfide (H2S)
Sulfite
Total Organic Carbon
Total Suspended Solids
Turbidity
Zinc

*except Unit 4 Dewatering Well Effluent

SURFACE WATER ELEVATIONS

POND NUMBER	SAMPLING FREQUENCY	2014 SAMPLES COLLECTED				REMARKS
		1ST QTR	2ND QTR	3RD QTR	4TH QTR	
MR Upstream	QTRLY	X				Measured 3/4/2014
MR Midstream	QTRLY	X				Measured 3/4/2014
MR Downstream1*	QTRLY	X				Measured 3/4/2014
MR Downstream2*	QTRLY	X				11/20/2013 - No Flow in Upper Culvert

SURFACE ELEVATIONS REPORTING (To be done QTRLY)

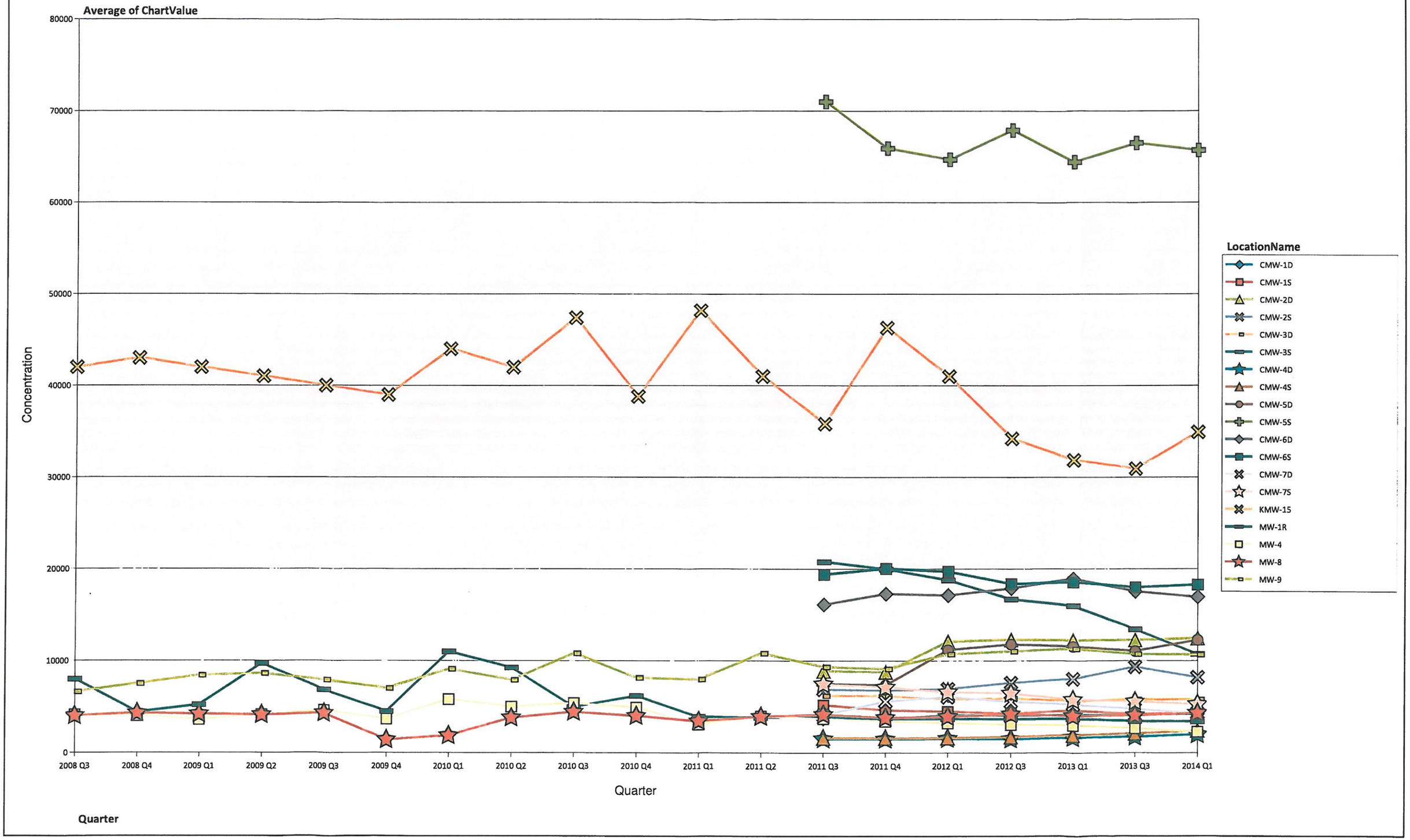
Field
DTW
Surfacewater Elevation

MR - Muddy River
*Downstream 1 OR Downstream 2 should be gauged, depending on river stage

APPENDIX B
Well Trend Graphs

NVE - RGS Data Trends

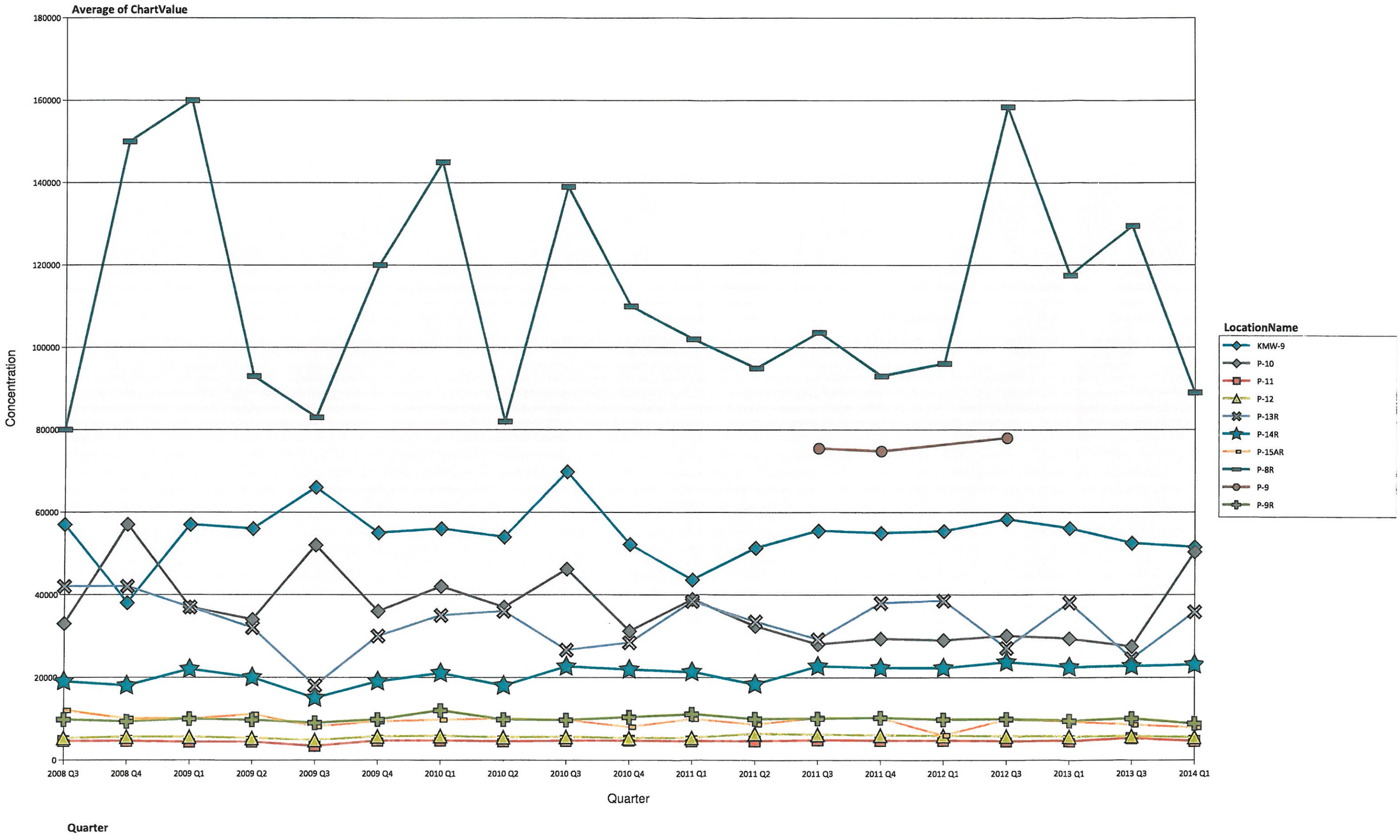
Grouping	LocationType	ParameterName
Unit 4 Pond Wells	Well	Total Dissolved Solids (residue, filterable)



Quarter

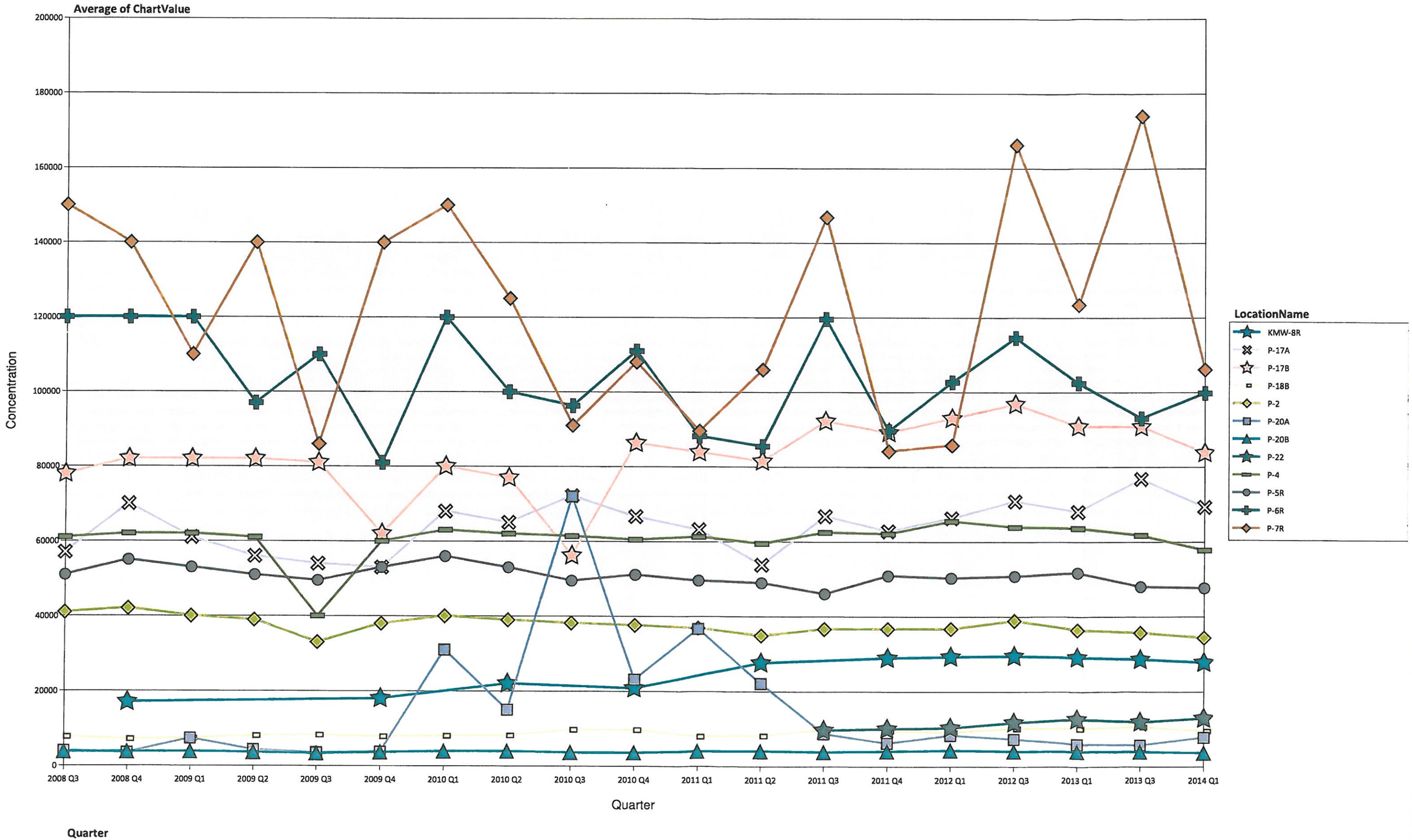
NVE - RGS Data Trends

Grouping	LocationType	ParameterName
Unit 1,2,3 Pond Wells	Well	Total Dissolved Solids (residue, filterable)



NVE - RGS Data Trends

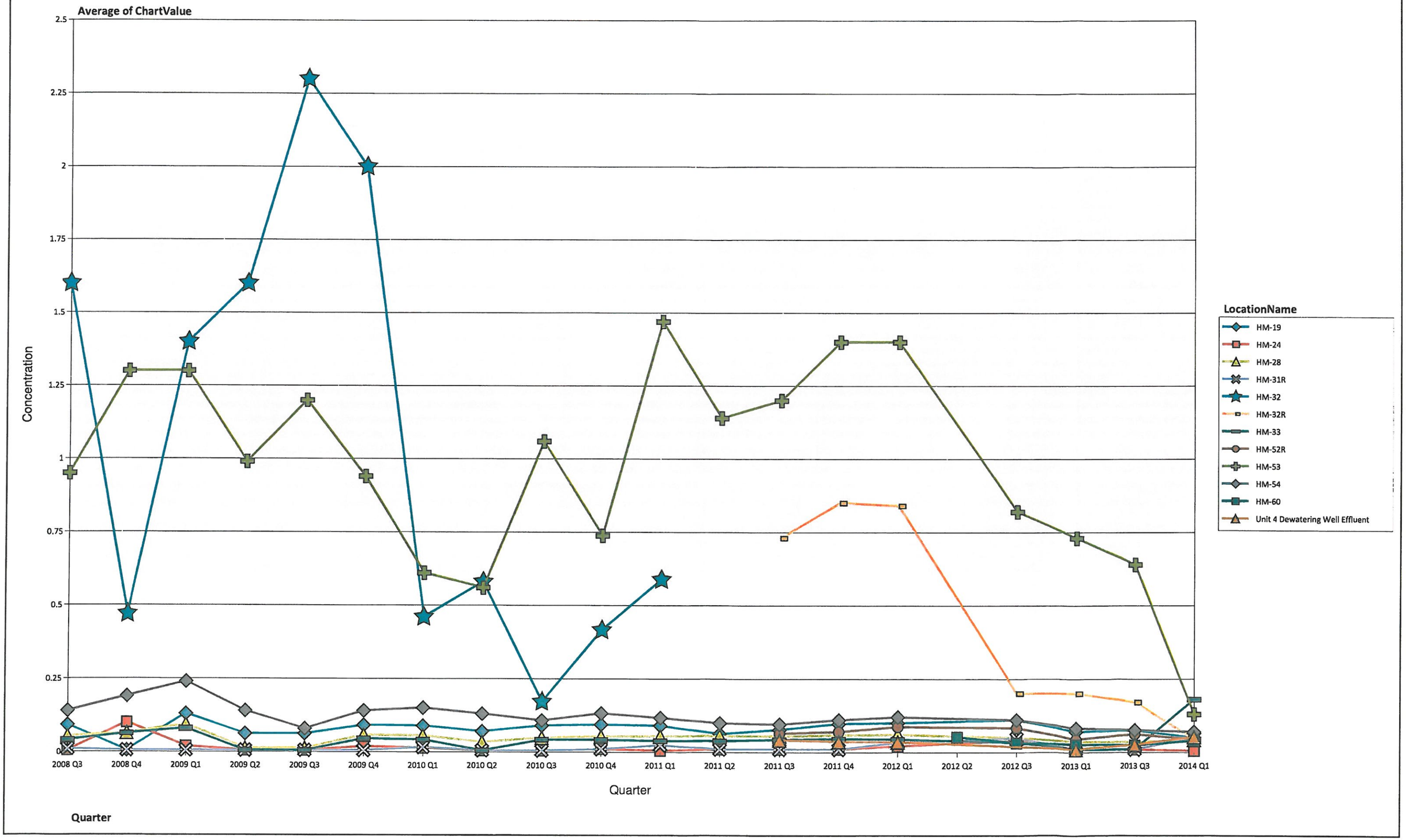
Grouping	LocationType	ParameterName
Unit 1,2,3 Pond Wells	Well	Total Dissolved Solids (residue, filterable)



Quarter

NVE - RGS Data Trends

Grouping	LocationType	ParameterName
WMU-12 Wells	Well	Arsenic, Dissolved



Quarter

APPENDIX C
Well Maintenance Table

Table 5 - Well Maintenace
1st Quarter 2014
NV Energy- Reid Gardner Station
DRAFT FOR PRELIMINARY DISCUSSION PURPOSES

Action to be taken 2014
Action to be taken after 2014
Continue observing
New well observation added 1st qtr 2014
Action taken on well in 2013

Area Location	Well ID	Well Construction Date	Field Observations 3rd qtr 2012	Recommendation January 2013	Field Observations 1st qtr 2013/Status April 2013	Field Observations 3rd qtr 2013	Recommendation October 2013	Field Observations 1st qtr 2014	Recommendation March 2014
Unit 4 Pond Wells	CMW-3S	9/28/2004	Clear	Due nothing. Eventually cease sampling as proposed in GSP	Silty	Cloudy	Abandon (Pond 4A solids removal workplan)	Cloudy brown	Assuming Pond 4A Solids Removal Workplan is approved, plug and abandon 2nd qtr 2014. Replace with one well cluster in center of the pond.
Unit 4 Pond Wells	CMW-3D	9/28/2004	Clear	Due nothing. Eventually cease sampling as proposed in GSP	Clear	Clear	Abandon (Pond 4A solids removal workplan).	Clear	Assuming Pond 4A Solids Removal Workplan is approved, plug and abandon 2nd qtr 2014 Replace with one well cluster in center of the pond.
Unit 4 Pond Wells	CMW-5S	9/30/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Silty. Parameter concentraitons remained the same.	Abandon (Pond 4A solids removal workplan) Replace with one well in center of the pond footprint following solids removal	Yellowish	Assuming Pond 4A Solids Removal Workplan is approved, plug and abandon 2nd qtr 2014. Replace with one well cluster in center of the pond.
Unit 4 Pond Wells	CMW-5D	9/30/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping	Abandon (Pond 4A solids removal workplan).	Little cloudy	Assuming Pond 4A Solids Removal Workplan is approved plug and abandon 2nd qtr 2014. Replace with one well cluster in center of the pond
Unit 4 Pond Wells	CMW-6S	10/1/2004	Silty	Due nothing. Eventually cease sampling as proposed in GSP	Silty	Silty	Abandon (Pond 4A solids removal workplan).	Really cloudy	Assuming Pond 4A Solids Removal Workplan is approved, plug and abandon 2nd qtr 2014. Replace with one well cluster in center of the pond.
Unit 4 Pond Wells	CMW-6D	10/1/2004	Clear	Due nothing. Eventually cease sampling as proposed in GSP	Slightly Silty	Cloudy	Abandon (Pond 4A solids removal workplan).	Clear	Assuming Pond 4A Solids Removal Workplan is approved plug and abandon 2nd qtr 2014 Replace with one well cluster in center of the pond.
Unit 1,2,3 Pond Wells	P-18A	1986	Dry (Wood debris)	Brush clean	Dry	Dry. Not sampled	Abandon and replace with 4" well deeper than previous well (Muddy River Workplan)	Dry. Not sampled	Plug and abandon with Pond 4A mobilization.Request NDEP approval. Replace in future with deeper well (Muddy River Workplan).
Unit 1,2,3 Pond Wells	KMW-9	3/18/1998	Exhibiting similar qualitiy as shallow wells. Possible cracked casing. Aquifer test conducted	Evaluate aquifer test results. Possible replacement.	Exhibits similar water quality as shallow wells Aquifer test inconclusive	Exhibits similar water quality as shallow wells	Cease sampling and use as water level only. Abandon and replace with 4" well as part as Area South of Pond D/E Workplan	Slightly milky. Exhibits similar water quality as shallow wells -potenial well seal compromised.	Because this was a well originally intended to monitoring deeper gw, and monitoring interval is unclear, cease sampling and use as water level only. Request NDEP approval. Potentially replace with medium depth 4" well with future workplan.
Unit 4 Pond Wells	KMW-19	2/28/2000	Silty. Hand bailed dry.	NA	Silty. Hand bailed dry.	Not sampled. Covered with roots.	Water level can still be obtained. Observe status 1st qtr 2014. If roots still an issue, cease sampling starting 3rd qtr 2014 and use as water level only.	Not sampled. Covered with roots	Cease sampling starting 3rd qtr 2014 and use as water level until possible. Request NDEP approval.
Unit 4 Pond Wells	MW-11S	2/27/2013	NA	NA	NA	NA	NA	Concrete collar broken, vault broken, cannot bolt down lid	Repair collar and vault with Pond 4A mobilization.
Unit 1,2,3 Pond Wells	KMW-3S	4/9/1998	NA	NA	NA	NA	NA	No lock or tag Protective casing is loose	Review KMW-5 1st qr 2014 sample results. Depending on levels, potentially plug and abandon using ATV rig or repair.
Unit 1,2,3 Pond Wells	KMW-3M	4/9/1998	NA	NA	NA	NA	NA	No lock or tag. Protective casing is loose. Concrete base is off the ground.	Review KMW-5 1st qr 2014 sample results. Depending on levels potentially plug and abandon using ATV rig or repair
Unit 1,2,3 Pond Wells	KMW-3D	4/9/1998	NA	NA	NA	NA	NA	No lock or tag. Protective casing is loose. Obstructed.	Review KMW-5 1st qr 2014 sample results Depending on levels, potentially plug and abandon using ATV rig or repair.

Table 5 - Well Maintenace
1st Quarter 2014
NV Energy- Reid Gardner Station
DRAFT FOR PRELIMINARY DISCUSSION PURPOSES

Action to be taken 2014
Action to be taken after 2014
Continue observing
New well observation added 1st qtr 2014
Action taken on well in 2013

Area Location	Well ID	Well Construction Date	Field Observations 3rd qtr 2012	Recommendation January 2013	Field Observations 1st qtr 2013/Status April 2013	Field Observations 3rd qtr 2013	Recommendation October 2013	Field Observations 1st qtr 2014	Recommendation March 2014
Unit 1,2,3 Pond Wells	KMW-4S	4/7/1998	NA	NA	NA	NA	NA	No lock, tag, or cap. Inner casing broken. Protective casing is loose and concrete base is 6" off the ground surface. Obstruction 4.4' below TOC.	Review KMW-5 1st qr 2014 sample results. Depending on levels, potentially plug and abandon using ATV rig or repair.
Unit 1,2,3 Pond Wells	KMW-4M	4/7/1998	NA	NA	NA	NA	NA	No lock, tag, or cap No protective casing.	Review KMW-5 1st qr 2014 sample results. Depending on levels, potentially plug and abandon using ATV rig or repair.
Unit 1,2,3 Pond Wells	KMW-4D	4/7/1998	NA	NA	NA	NA	NA	No lock or tag, No protective casing.	Review KMW-5 1st qr 2014 sample results. Depending on levels, potentially plug and abandon using ATV rig or repair.
Unit 1,2,3 Pond Wells	KMW-5S	4/7/1998	NA	NA	NA	NA	NA	Orange brown sample. Inner casing - no joint 3 5 feet below TOC. No lock and tag.	Add lock and tag. Repair casing with Pond 4A mobilization. Survey after repair.
Unit 1,2,3 Pond Wells	KMW-5M	4/7/1998	NA	NA	NA	NA	NA	Clear sample. No locks and tags.	Add lock and tag. Survey.
Unit 1,2,3 Pond Wells	KMW-5D	4/7/1998	NA	NA	NA	NA	NA	Sitly sample. Inner casing - no joint 3 5 feet below TOC. No lock and tag.	Add lock and tag. Repair casing with Pond 4A mobilization. Survey after repairs.
Unit 1,2,3 Pond Wells	KMW-6S	4/7/1998	NA	NA	NA	NA	NA	Broken casing. No lock, tag. or cap. No top cover on protective casing.	Review KMW-5 1st qr 2014 sample results. Depending on levels, potentially plug and abandon using ATV rig or repair.
Unit 1,2,3 Pond Wells	KMW-6M	4/7/1998	NA	NA	NA	NA	NA	No lock, tag, or cap.	Review KMW-5 1st qr 2014 sample results. Depending on levels, potentially plug and abandon using ATV rig.
Unit 1,2,3 Pond Wells	KMW-6D	4/7/1998	NA	NA	NA	NA	NA	No lock, tag, or cap. No top cover on protective casing.	Review KMW-5 1st qr 2014 sample results. Depending on levels, potentially plug and abandon using ATV rig or repair.
Unit 4 Pond Wells	KMW-1S	3/17/1998	Well nearly dry	Abandon and replace. BLM access required.	Hand bailed dry, silty, roots	Hand bailed dry, roots	Abandon. Replace with deeper 4", smaller screen slot size, and finer filter pack.	Hand bailed dry, roots, sampled.	Because this is near a source area, continue to observe and sample. Replace in future workplan.
Unit 1,2,3 Pond Wells	P-18B	1986	Recharge slowly	Do nothing. Possibly use as aquifer test observation well.	Recharge slowly. Hand bailed dry.	sampled; yellow hue, dry @ 1.5 gals.	Abandon and replace with 4" well deeper than previous well (Muddy River Workplan)	Hand bailed dry, recharged to 80% in 6 hours, sampled.	Plug and abandon. Replace with 4" well deeper than previous well (Muddy River Workplan)
Unit 1,2,3 Pond Wells	P-17A	1986	Recharge slowly	Abandon and replace pair with one 4" well. Possible ramp required and ATV rig.	Recharge slowly. Hand bailed dry.	Recharge slowly. Hand bailed dry.	Abandon with Muddy River WP mobilization. Possible replacement with deeper well in future workplan.	Hand bailed dry, recharged to 80% in 5 hours, sampled.	Continue to observe. Abandon with Muddy River WP mobilization. Possible replacement with deeper well in future workplan.
Unit 1,2,3 Pond Wells	P-17B	1986	Recharge slowly	Abandon and replace pair with one 4" well. Possible ramp required and ATV rig.	Recharge slowly. Hand bailed dry.	Recharge slowly. Hand bailed dry.	Abandon with Muddy River WP mobilization. Possible replacement with deeper well in future workplan.	Recharge to 80% in 5 hours, sampled.	Continue to observe. Abandon with Muddy River WP mobilization. Possible replacement with deeper well in future workplan.
Unit 4 Pond Wells	CMW-1S	10/7/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Silty. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).	Yellow tint	Continue to observe. Berms and wells within berm will remain in place per Pond 4A Solids Removal Workplan

Table 5 - Well Maintenace
1st Quarter 2014
NV Energy- Reid Gardner Station
DRAFT FOR PRELIMINARY DISCUSSION PURPOSES

Action to be taken 2014
Action to be taken after 2014
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New well observation added 1st qtr 2014
Action taken on well in 2013

Area Location	Well ID	Well Construction Date	Field Observations 3rd qtr 2012	Recommendation January 2013	Field Observations 1st qtr 2013/Status April 2013	Field Observations 3rd qtr 2013	Recommendation October 2013	Field Observations 1st qtr 2014	Recommendation March 2014
Unit 4 Pond Wells	CMW-1D	10//2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).	Clear	Continue to observe. Berms and wells within berm will remain in place per Pond 4A Solids Removal Workplan
Unit 4 Pond Wells	CMW-2S	10/7/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Silty. Parameter concentrations remained the same.	Abandon (Pond 4A solids removal workplan).	Cloudy	Continue to observe. Berms and wells within berm will remain in place per Pond 4A Solids Removal Workplan
Unit 4 Pond Wells	CMW-2D	10/7/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).	Cloudy brown	Continue to observe. Berms and wells within berm will remain in place per Pond 4A Solids Removal Workplan
Unit 4 Pond Wells	CMW-4S	10/5/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan)	Cloudy Reddish	Continue to observe. Berms and wells within berm will remain in place per Pond 4A Solids Removal Workplan
Unit 4 Pond Wells	CMW-4D	10/5/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan)	Little cloudy reddish	Continue to observe. Berms and wells within berm will remain in place per Pond 4A Solids Removal Workplan
Unit 4 Pond Wells	CMW-7S	10/8/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Silty. Parameter concentraitons remained the same	Abandon (Pond 4A solids removal workplan).	Cloudy	Continue to observe. Berms and wells within berm will remain in place per Pond 4A Solids Removal Workplan
Unit 4 Pond Wells	CMW-7D	10/8/2004	Silty	Redevelop	Redeveloped 1st qtr 2013	Cloudy. Parameter concentrations remained the same after redeveloping.	Abandon (Pond 4A solids removal workplan).	Silty	Continue to observe. Berms and wells within berm will remain in place per Pond 4A Solids Removal Workplan
Unit 4 Pond Wells	IMW-3D	5/2/1986	Damaged casing*	Repair casing and resurvey	Not accessible	sampled; lowered pump to 80' to prevent drying up. Casing not damaged	Continue to observe. Possible inaccurate reporting.	Damage to casing not noted	Continue to observe
Unit 1,2,3 Pond Wells	P-1D	5/4/1988	Roots.	Abandon and replace. Do at same time as KMW-9.	No roots noted. Dry @ 6als.	No roots noted. Dry @ 4 gals	Continue to observe. Potentially abandon and replace with 4" well in future workplan.	No roots noted	Continue to observe. Field observations do not currently warrant abadonment
Unit 4 Pond Wells	IMW-2SR	7/20/2011	Roots	Brush clean	No roots noted	Roots in purge water	Continue to observe. Well recently installed.	Lots of roots on pump, sampled.	Continue to observe
Unit 4 Pond Wells	KMW-2D	5/2/2005	Silty. Hand bailed.	NA	Silty. Hand bailed.	sampled; silty, roots	Continue to observe. Roots observed for the first time Q3 2013.	Silty, roots, sampled	Continue to observe and sample.
Unit 4 Pond Wells	MW-1R	8/20/2007	Clear. No roots	NA	Clear. No roots	sampled; dry @ 18 gals, roots on pump	Continue to observe. Roots observed for the first time Q3 2013.	Roots in sample and on pump	Continue to observe and sample.
Unit 4 Pond Wells	MW-10RR	7/11/2011	Roots	Brush clean	No roots noted. Light green grey	sl yellow hue; dry @ 13 gals; roots on pump	Continue to observe. Well recently installed.	No roots noted	Continue to observe and sample

Table 5 - Well Maintenace
1st Quarter 2014
NV Energy- Reid Gardner Station
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Area Location	Well ID	Well Construction Date	Field Observations 3rd qtr 2012	Recommendation January 2013	Field Observations 1st qtr 2013/Status April 2013	Field Observations 3rd qtr 2013	Recommendation October 2013	Field Observations 1st qtr 2014	Recommendation March 2014
Unit 1,2,3 Pond Wells	P-1R	12/9/2003	Roots	Brush clean	Abandoned March 3, 2013	NA	NA	NA	NA
Unit 1,2,3 Pond Wells	P-9	5/4/1988	Roots	Brush clean	Abandoned March 3, 2013	NA	NA	NA	NA
Former ASP-1,2,3 Wells	IMW-15	7/12/2005	Roots	Plug and abandon	Abandoned March 3, 2013	NA	NA	NA	NA
Unit 1,2,3 Pond Wells	P-2	10/31/1989	Damaged casing	Repair casing and resurvey	Repaired 1st qtr 2013. Resurveyed April 2, 2013	OK	NA	NA	NA
Unit 4 Pond Wells	MW-4	4/16/1993	Cracked casing	Repair casing and resurvey	Repaired 1st qtr 2013. Resurveyed April 2, 2013	OK	NA	NA	NA
Unit 4 Pond Wells	MW-9	4/15/1993	Broken casing	Repair casing and resurvey	Repaired 1st qtr 2013. Resurveyed April 2, 2013	OK	NA	NA	NA

* Observed 1stqtr 2012

APPENDIX D (CD)
Raw Data and Detection Count Pivot Chart